

REED SWITCH

ORD2210V

Vacuum Ultra High Breakdown Voltage High Power Reed Switch

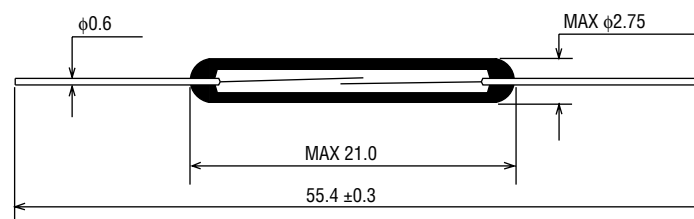
GENERAL DESCRIPTION

The ORD2210V is a small single-contact reed switch of a vacuum type designed for ultra high breakdown voltages 1000 V DC between the reed contacts.

Features

- (1) The reed contacts are hermetically sealed within a glass tube and do not receive any influence from the external atmospheric environment.
- (2) Quick response
- (3) The operating system and electrical circuits are coaxially composed and the ORD2210V is suited to the applications for high frequency transmission.
- (4) Reed switches are compact and light weight.
- (5) Superior corrosion resistance and wear resistance of the contacts assures stable switching operation and long life.
- (6) With a permanent magnet installed, reed switches economically and easily become proximity switches.

External Dimensions (Unit:mm)



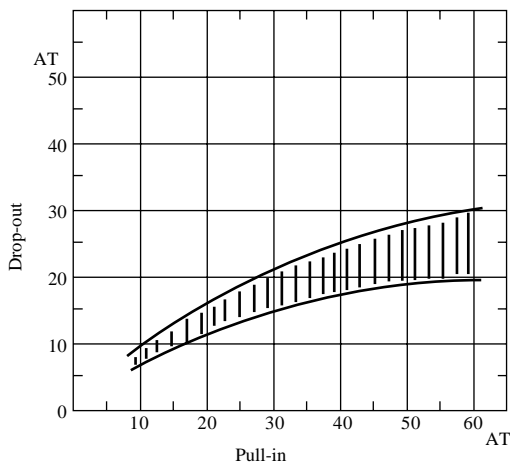
APPLICATIONS OF REED SWITCHES

1. Automotive electronic devices
2. Control equipment
3. Communication equipment
4. Measurement equipment
5. Household appliances

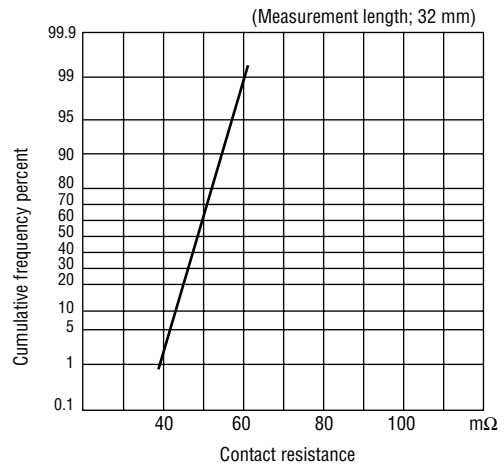
ELECTRICAL CHARACTERISTICS

| Parameter | Symbol | Condition | Rated Value | | | Unit |
|---------------------------|--------|-----------|------------------|------|--------|------|
| | | | Min. | Typ. | Max. | |
| Pull-in Value | PI | — | 20 | — | 60 | AT |
| Drop-out Value | DO | — | 7 | — | — | AT |
| Contact Resistance | CR | — | — | — | 100 | mΩ |
| Breakdown Voltage | — | — | 1000 | — | — | VDC |
| Insulation Resistance | — | — | 10 ¹⁰ | — | — | Ω |
| Electrostatic Capacitance | — | — | — | — | 0.5 | pF |
| Contact Rating | — | — | — | — | 100 | VA |
| Maximum Switching Voltage | — | — | — | — | 350 DC | V |
| Maximum Switching Voltage | — | — | — | — | 300 AC | V |
| Maximum Switching Current | — | — | — | — | 1.0 | A |
| Maximum Carry Current | — | — | — | — | 2.5 | A |

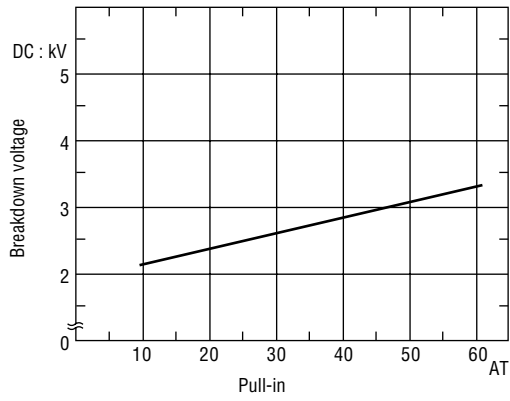
(1) Drop-out vs. Pull-in



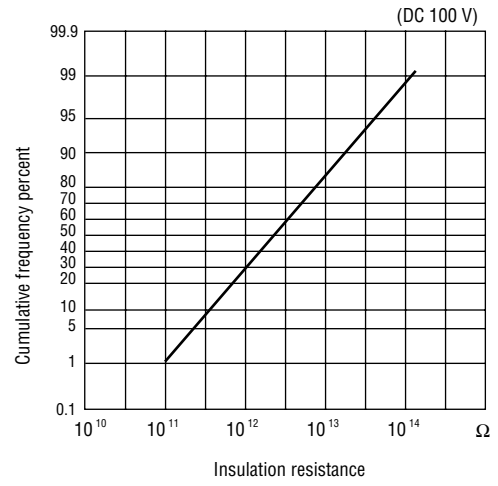
(2) Contact resistance



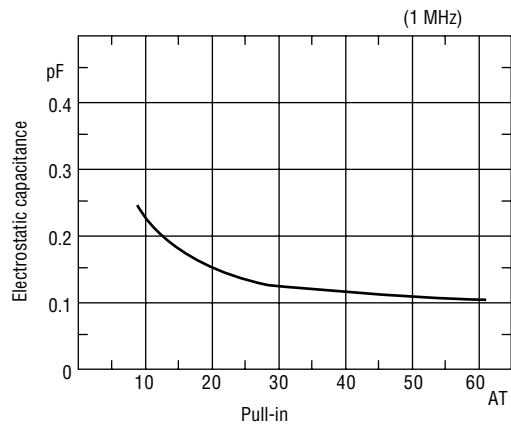
(3) Breakdown voltage



(4) Insulation resistance



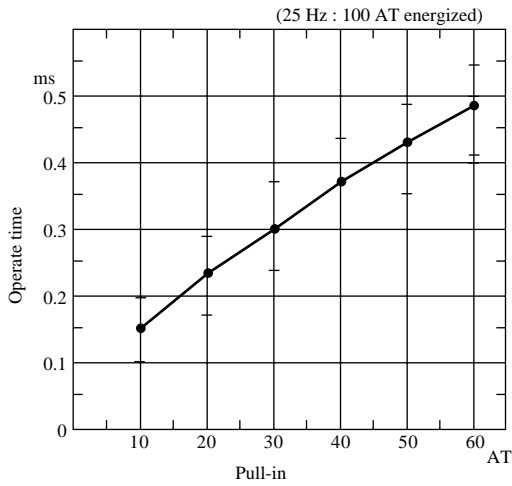
(5) Electrostatic capacitance



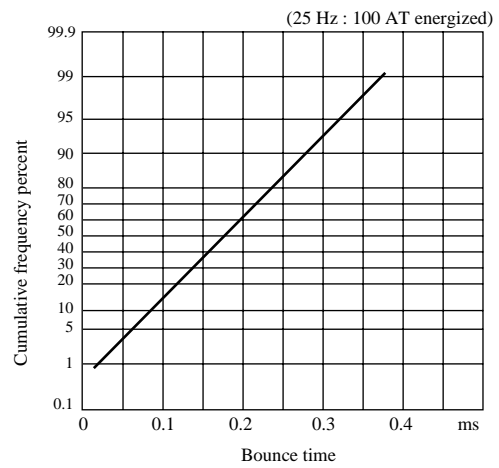
OPERATING CHARACTERISTICS

| Parameter | Rated Value | | | Unit |
|-----------------------------|-------------|------|------|------|
| | Min. | Typ. | Max. | |
| Operate Time | — | — | 0.6 | ms |
| Bounce Time | — | — | 0.5 | ms |
| Release Time | — | — | 0.05 | ms |
| Resonant Frequency | 2250 | 2500 | 2750 | Hz |
| Maximum Operating Frequency | — | — | 500 | Hz |

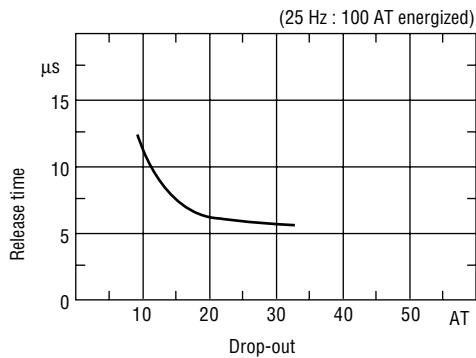
(1) Operate time



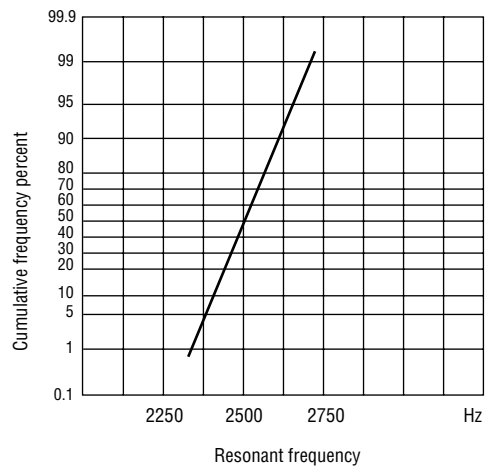
(2) Bounce time



(3) Release time

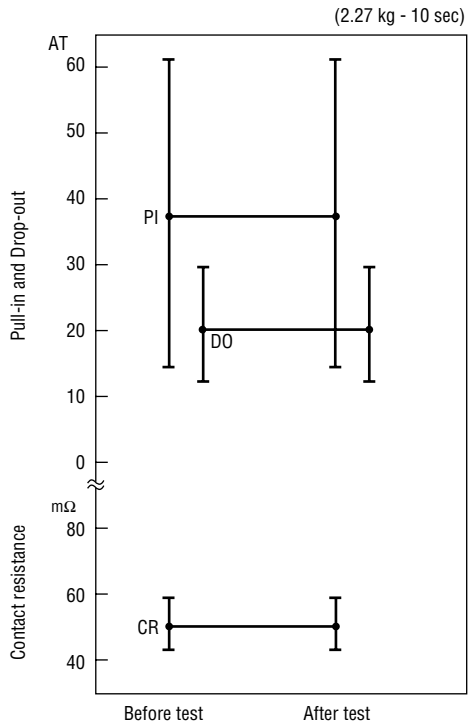


(4) Resonant frequency

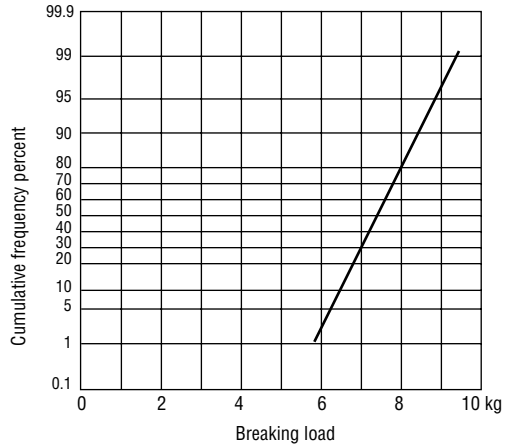


MECHANICAL CHARACTERISTICS

(1) Lead tensile test (static load)

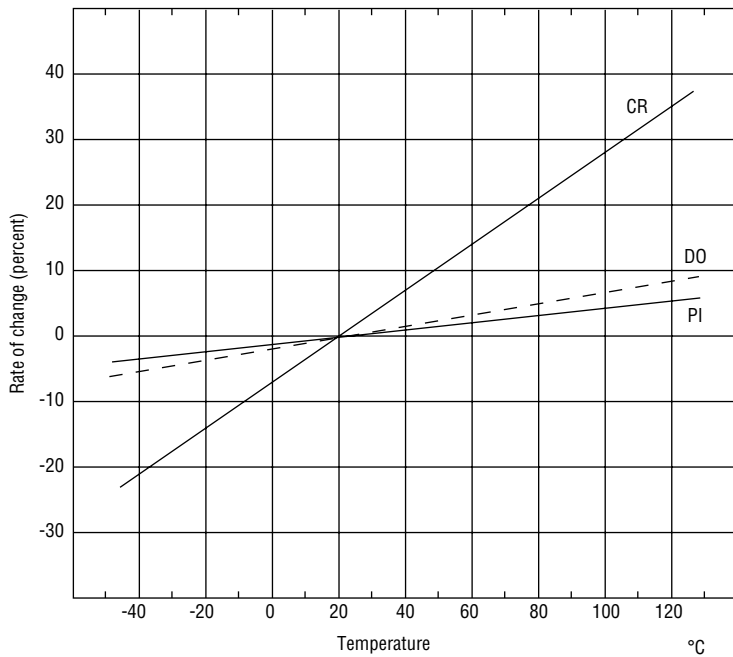


(2) Lead tensile strength

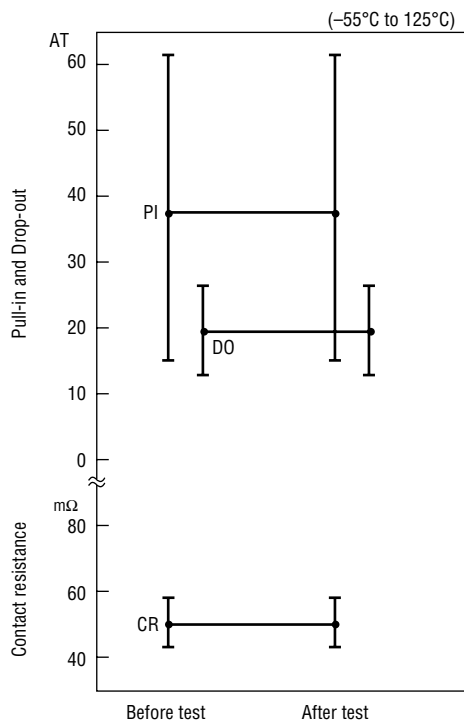


ENVIRONMENTAL CHARACTERISTICS

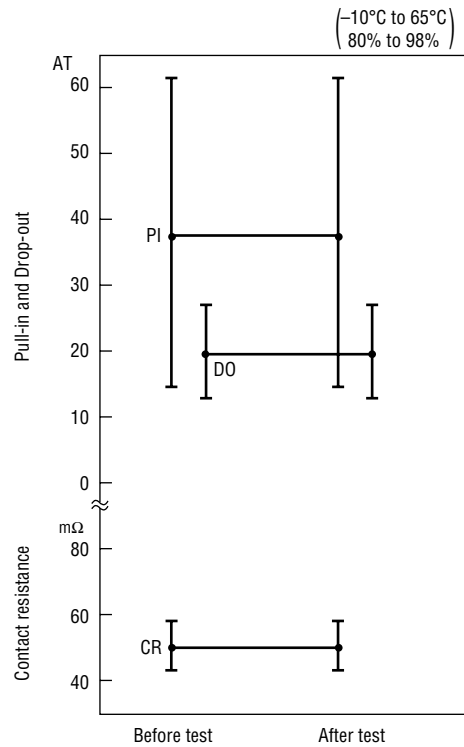
(1) Temperature characteristics



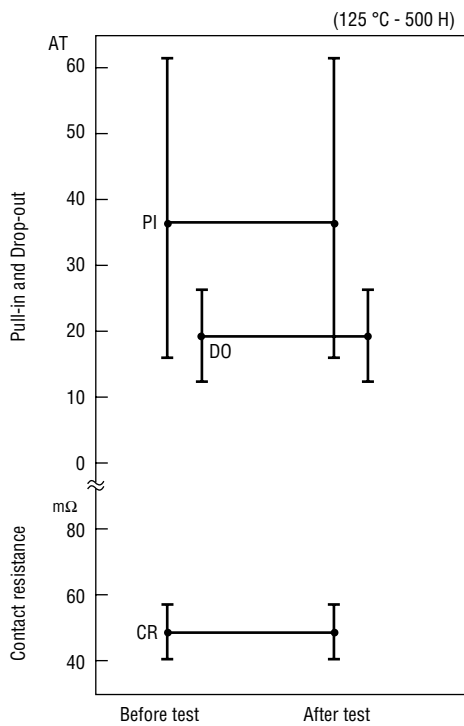
(2) Temperature cycle



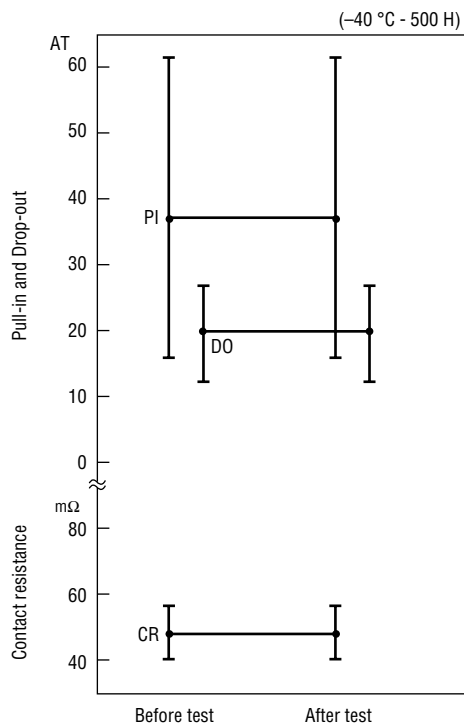
(3) Temperature and humidity cycle



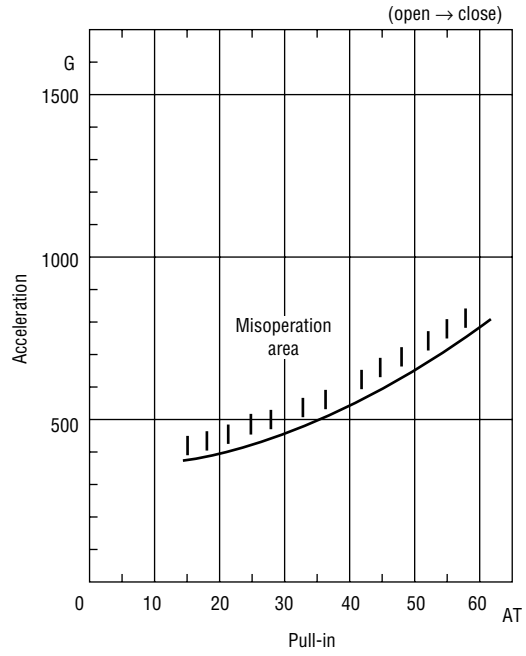
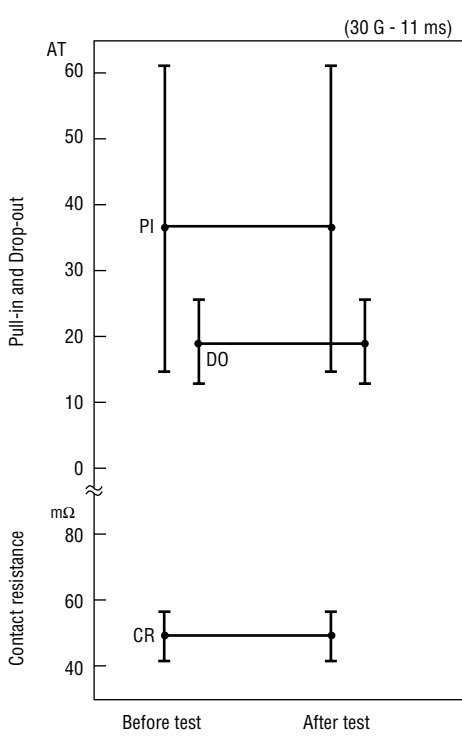
(4) High temperature storage test



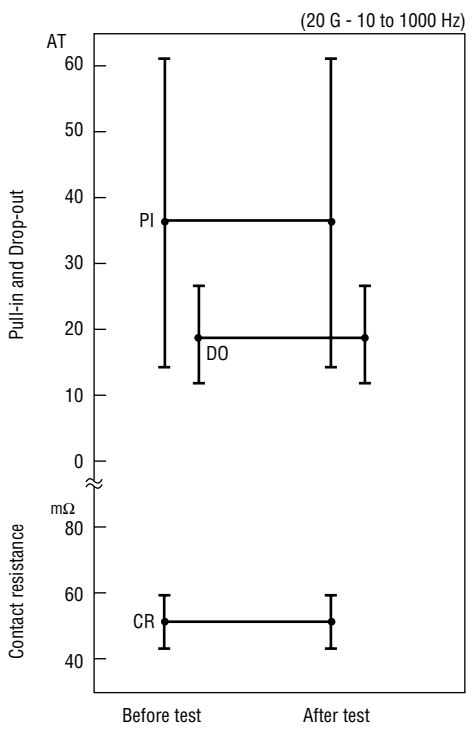
(5) Low temperature storage test



(6) Shock test



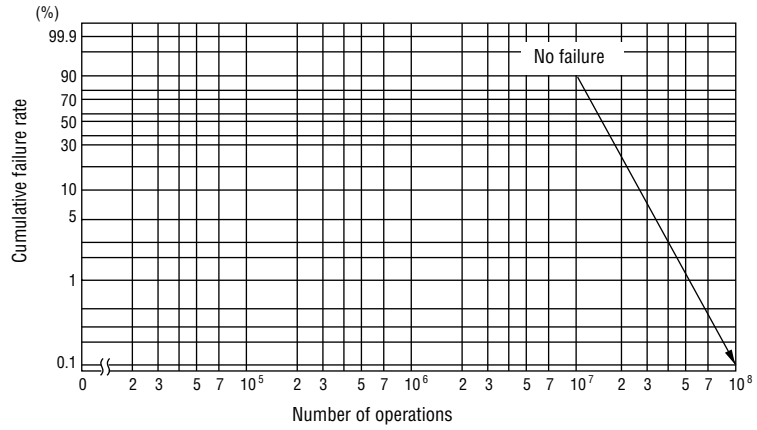
(7) Vibration test



LIFE EXPECTANCY DATA: ORD2210V

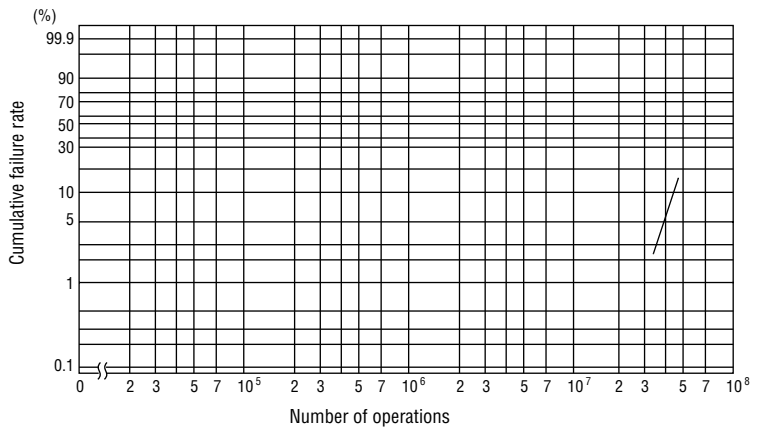
Load conditions

Voltage : 200 VDC
 Current : 1 mA
 Load : Resistive load



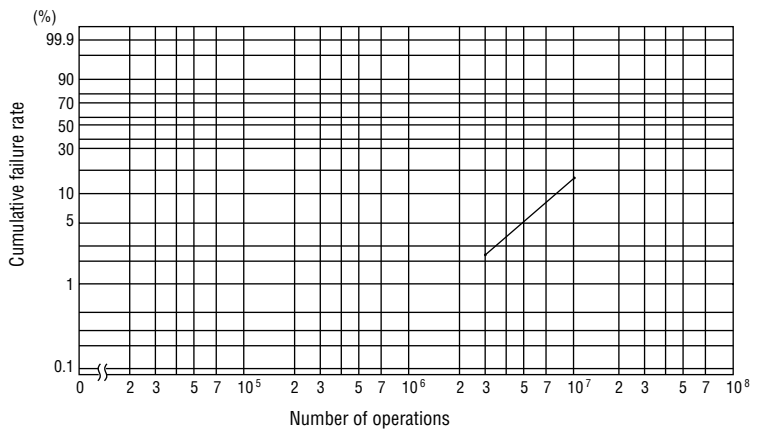
Load conditions

Voltage : 500 VDC
 Current : 1 mA
 Load : Resistive load



Load conditions

Voltage : 1 kVDC
 Current : 1 mA
 Load : Resistive load



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